

InWorld OPSPARC Rubric 1: *Knowledge Spaces and Models*

Category	Score
Knowledge Spaces	
<p>Team Identifications and Collaborations</p> <ul style="list-style-type: none"> • An informative visual includes team name, team members, and affiliations. (___/4) • Evidence clearly shows the team shared responsibility and worked together. (___/4) <p>Design Process (Team's Original Spinoff Innovation) <i>Evidence of EACH of these steps of the Design Process must be clearly displayed in the Knowledge Space. See the Design Process Packet for more details.</i></p> <p>Identify the Problems</p> <ul style="list-style-type: none"> • A problem statement for creating the Spinoff technology is stated clearly. (___/4) <p>Identify Criteria and Constraints</p> <ul style="list-style-type: none"> • Conditions and limits to the solution (should be specific) are clearly identified as the technology is applied to a new situation. (___/4) <p>Brainstorm Possible Solutions</p> <ul style="list-style-type: none"> • Important information about the mission was considered in the spinoff. (___/4) • The reasons the team chose and did not choose brainstormed ideas are clearly identified. (___/4) <p>Select a Design</p> <ul style="list-style-type: none"> • Sketches clearly depict the design. (___/4) • Strengths and weaknesses of the design are discussed. (___/4) <p>Content Application and Merit of the Design</p> <ul style="list-style-type: none"> • Design is feasible and based on accurate applications of science and mathematical concepts. (___/4) • Explanation includes evidence of research to support science and mathematical concepts. (___/4) 	
	_____/40

<i>Models</i>	
Tools <ul style="list-style-type: none"> • Tool(s) used to create 3D InWorld Models are identified. (___/4) First Model – JWST/SLS <ul style="list-style-type: none"> • A realistic 3D model of JWST OR JWST Spinoff technology is included in the Knowledge Space. (___/4) • Strengths and weaknesses of the design are displayed. (___/4) Second Model – Tech Transfer <ul style="list-style-type: none"> • A realistic 3D model depicting the newly designed Spinoff technology is included in the Knowledge Space. (___/4) • Strengths and weaknesses of the design are displayed. (___/4) 	___ /20
***Note: Judges may award up to 8 additional points for unique and exceptional work. (___/8)	Total: ___ / 68

Assessment

4 (Excellent) = All criteria (procedures, steps, and details) are met or followed.

3 (Good) = Most criteria are met with only a few errors.

2 (Fair) = Many criteria are met, but work has significant errors.

1 (Poor) = Most criteria are not met.

0 (No effort) = No effort to meet criteria.